



03/10/2006

11:22

4084337460 LSI LOGIC → 915712732885

NO. 075 0002

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
(571) 273-2885

or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590

12/21/2005

Tim R. Croll

LSI Logic Corporation

1621 Barber Lane, MS D-106

Milpitas, CA 95035

03/13/2006 TBESHARZ 00000014 122252 10720958

01 FC:1501 1400.00 DA

02 FC:1504 300.00 DA

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Manu Kashyap

(Depositor's name)

March 10, 2006

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10720,958	11/24/2003	Arum Ramakrishnan	03-1098/L13.12-0252	5206

TITLE OF INVENTION: ROUTING SCHEME FOR DIFFERENTIAL PAIRS IN FLIP CHIP SUBSTRATES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	03/21/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
RAO, SHRINIVAS H	2814	257-773000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Westman, Chapman &amp; Kelly

2

3

## 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

LSI Logic Corporation

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Milpitas, California USA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

☒ Issue Fee☒ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 12-2252 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Date

3/10/2006

Typed or printed name

Henry Groth

Registration No.

39,696

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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**PAY OVER SHEET**

**LSI LOGIC CORPORATION**  
**Office of General Counsel**  
**1621 Barber Lane**  
**M/S D-106**  
**Milpitas, CA 95035**  
**Fax: (408) 433-7460**

**Date:** March 10, 2006  
**To** **Name:** USPTO – BOX ISSUE  
**Fax:** 571-273-2885  
**Phone:** 703-305-8283

**From:** **Name:** Manu Kashyap, Intellectual Property Paralegal  
**Corporate Legal Dept.**  
**Telephone:** (408) 433-7475  
**Fax:** (408) 433-7460  
**Re:** 10/720,958

Number of Pages Including this Page 3

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**MESSAGE:**

**Docket Number: 03-1098**  
**Box: Issue Fee Payment and Publication Fee**

Please notify us immediately if any pages are not received.



11:22

4084337460 LSI LOGIC → 915712732885

NO.075 0003

PTO/SB/17

Approved for use through 9/30/2000. OMB 0651-0032  
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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**FEE TRANSMITTAL**

Patent Fees are subject to annual revision on October 1.

These are the fees effective October 1, 1997.

Small Entity payments must be supported by a small entity statement,  
otherwise large entity fees must be paid. See Forms PTO/SB/09-12.  
See 37 C.F.R. 1.27 and 1.28.**TOTAL AMOUNT OF PAYMENT**(\$)1700.00

Complete if Known

Application Number	10/720,958
Filing Date	November-24, 2003
First Named Inventor	Arun Ramakrishnan
Group Art Unit	2814
Examiner Name	Steven Rao
Attorney Docket No.	/ 03-1098

**METHOD OF PAYMENT (check one)**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any over payment to:

Deposit Account Number 12-2252Deposit Account Number LSI LOGIC CORPORATION☒ Charge Any Additional Fee required Under 37 C.F.R. 1.18 and☒ Charge the Issue Fee Set in 37 C.F.R. 1.18 at the Mailing of the Notice of Allowance.

- 2.
- ☐
- Payment Enclosed:

☐ Check ☐ Money Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Large Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	790	201	395	Utility filing fee	
108	330	206	165	Design filing fee	
107	540	207	270	Plant filing fee	
108	790	208	395	Reissue filing fee	
114	150	214	75	Provisional Filing fee	

**SUBTOTAL (1) (\$)** 0.00**2. EXTRA CLAIM FEES**

	Extra Claim	Fee from below	Fee Paid
Total claim	<u>20</u> * = <u>20</u> X <u>1</u> = <u>20</u>		
Independent Claims	<u>3</u> * = <u>3</u> X <u>1</u> = <u>3</u>		
Multiple Dependent	<u>  </u> = <u>  </u>		

\*or number previously paid, if greater. For Reissues, see below

Large Fee Code	Entity Fee (\$)	Large Fee Code	Entity Fee (\$)	Fee Description
103	22	203	11	Claims in excess of 20
102	82	202	41	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim, if not paid
109	82	209	41	**Reissue independent claims over original patent
110	22	210	11	**Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2) (\$)** 0.00**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Fee Code	Entity Fee (\$)	Large Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	190	139	130	Non-English specification	
147	2,520	147	2,520	For filing request for reexamination	
112	920*	112	920	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	950	217	475	Extension for reply within third month	
118	1510	218	755	Extension for reply within fourth month	
128	2,060	228	1,030	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,320	241	660	Petition to revive - unintentional	
142	1,320	242	660	Utility issue fee (or reissue)	1400
143	450	243	225	Design issue fee	
144	870	244	335	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	240	126	240	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	790	246	395	Filing a submission after final rejection (37 CFR 1.129 (a))	
149	790	249	395	For each additional invention to be examined (37 CFR 1.129 (b))	
Other fee (specify)				PUBLICATION FEE	300
Other fee (specify)					

**SUBTOTAL (3) (\$)** 1700.00

\*Reduced by Basic Filing Fee Paid

**SUBMITTED BY**

Typed or printed name

Henry Groth

Signature

Date

3/10/2006

Reg. Number

39,696

Deposit Account User ID

**Complete (if applicable)**

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